

## BOOK REVIEW

*There's A Stat for That: What to Do and When to Do it*

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Reviewed by John Barnes

This volume of 99 pages is different to other statistics books. Through an opening quiz you are informed which statistics process to use and why but not how, because most other books serving statistics do that. The book comprises Preface; Acknowledgements. Each test is detailed in a single page as follows:

The book opens with a simple quiz: 1. How many independent and dependent variables do you have? 2. Are your variables at the nominal, ordinal or interval levels (or above)? 3. How many levels do your variables have? 4. How many groups of people (or things) are you including in your analysis? 5. What is the number of measurement occasions in your design? 6. Locate the answers to these questions in the following big fun table. It will point you in the Right Stat for That!

**Part 1 Frequency Analysis:** Module 1 Binomial test; Module 2 Chi Square test  
Module 3 Kolmogorov-Smirnov test; Module 4 Single sample t-test; Module 5 Fisher Exact Test; Module 6 Two-Way Chi Squared.

**Part 2 Group Comparisons:** Module 7 Mann-Whitney Test;  
Module 8 Independent t-Test; Module 9 Median Test  
Module 10 Kruskal Wallis Test; Module 11 Analysis of Variance Test  
Module 12 Two-Way Analysis of Variance; Module 13 Analysis of Covariance  
Module 14 Multivariate Analysis of Variance.

**Part 3 Repeated Measures Analysis:** Module 15 McNemar Change Test;  
Module 16 Wilcoxon Signed Ranks Test; Module 17 Paired Samples t-Test;  
Module 18 Cochran Q Test; Module 19 Friedman Test; Module 20 Repeated Measures Analysis of Variance; Module 21 Two Way Repeated Measures; Module 22 Mixed Analysis of Variance; Module 23 Time Series Analysis;

**Part 4 Correlational Analysis:** Module 24 Kappa Coefficient of Agreement;  
Module 25 Spearman Correlation Coefficient; Module 26 Phi Correlation Coefficient  
Module 27 Cramer's v Coefficient; Module 28 Simple Logistic Regression  
Module 29 Multiple Logistic Regression; Module 30 Discriminant Analysis  
Module 31 Pearson Relation Coefficient; Module 32 Simple Linear Regression;  
Module 33 Multiple Linear Regression; Module 34 Canonical Correlation;  
Module 35 Exploratory Factor Analysis; Module 36 Confirmatory Factor Analysis;  
Module 37 Cluster Analysis; Module 38 Path Analysis; Module 39 Structural Equation Modeling; Module 40 Hierarchical Linear Modelling. **Index.**

**Conclusion** This book is highly recommended to all students to help decide which statistical tests to use and why as part of their quantitative studies. The book is clear; concise and a pleasure to read.